



National Weather Service, Portland

Portland (PDX) 1991-2020 Climate Normals

The new 1991-2020 climatic averages for Portland have shown a general increase in temperatures, with the largest changes being in May as well as July and August. Trends in precipitation are more mixed, with wetter months overall, except for summer months (June through August). Total annual precipitation increased 0.88 inch (2.5% increase) over that of the prior climate normals (1981-2010).

Highlights

- Warmer through the year, with largest temperature increases in May, July, and August
- Drier summers, with July and August down 20% (from ~0.66" down to ~0.50" each)
- Overall, wetter for in most months/seasons, except for drier summers
- Month with largest precipitation change is October, which has a 14% jump (up 0.42")

1991-2020 ANNUAL Normals and Changes (compared to 1981-2010 normals)

	Temperature Data					Precipitation Data				
	Mean T	Max T	Min T	Tx≥90	Tn≤32	Total	DY≥.01	DY≥.10	DY≥.50	DY≥1.0
Normal	55.1°	64.0°	46.3°	12.5	31.7	36.91"	156.1	93.3	20.4	4.3
<i>Δ normals</i>	+0.6°	+0.8°	+0.6°	+0.5	+2.1	+0.88"	+1.6	+2.3	+1.0	+0.5

1991-2020 SEASON¹ Normals and Changes (compared to 1981-2010 normals)

	Temperature Data					Precipitation Data				
	Mean T	Max T	Min T	Tx≥90	Tn≤32	Total	DY≥.01	DY≥.10	DY≥.50	DY≥1.0
Winter										
Normal	42.5°	48.5°	36.4°	0	24.3	14.48"	53.4	34.6	9.0	1.9
<i>Δ norms</i>	+0.7°	+0.6°	+0.6°	0	+0.6	+0.45"	+1.9	+1.3	+0.6	+0.1
Spring										
Normal	53.5°	62.7°	44.3°	0.3	2.9	9.37"	48	27.4	4.5	0.6
<i>Δ norms</i>	+0.6°	+0.6°	+0.5°	-0.1	+0.6	+0.49"	+0.4	+1.2	+0.6	+0.2
Summer										
Normal	68.4°	79.6°	57.2°	10.5	0	2.67"	16.3	7.7	1.1	0.1
<i>Δ norms</i>	+0.9°	+1.1°	+0.7°	+0.7	0	-0.35"	-0.9	-0.5	-0.2	-0.2
Fall										
Normal	56.0°	64.9°	47.2°	1.7	4.5	10.39"	38.4	23.6	5.8	1.7
<i>Δ norms</i>	+0.7°	+0.8°	+0.7°	0	+1.0	+0.29"	+0.2	+0.3	0	+0.4

¹ Winter months are DJF (Dec, Jan, Feb), Spring (MAM), Summer (JJA), and Fall (SON).



National Weather Service, Portland

Portland (PDX) 1991-2020 Climate Normals

1991-2020 Normals for Temperature (and change, Δ , as compared to 1981-2010 normals)

	Mean T	Δ T	Max T	Δ Tx	Min T	Δ Tn	Days Tx \geq 90	Δ Tx90	Days Tn \leq 32	Δ Tn32
Jan	41.9	+0.5	47.5	+0.5	36.2	+0.4	0	0	8.7	+0.4
Feb	44.1	+0.3	51.5	+0.2	36.8	+0.5	0	0	7.2	+0.4
Mar	48.3	+0.1	56.8	+0.1	39.7	+0.1	0	0	2.6	+0.5
Apr	52.8	+0.5	62.0	+0.6	43.7	+0.6	0	0	0.3	+0.1
May	59.4	+1.1	69.3	+1.3	49.4	+0.8	0.3	-0.1	0	0
Jun	64.2	+0.6	74.3	+0.8	54.1	+0.5	1.5	+0.3	0	0
Jul	70.2	+1.0	81.9	+1.3	58.5	+0.1	4.5	+0.1	0	0
Aug	70.6	+1.1	82.3	+1.2	58.9	+0.3	4.5	+0.3	0	0
Sep	65.4	+0.9	76.7	+0.9	54.1	+0.1	1.7	+0.1	0	0
Oct	55.6	+0.7	64.4	+0.6	46.7	-0.1	0	-0.1	0.4	+0.2
Nov	47.1	+0.5	53.5	+0.7	40.6	+0.1	0	0	4.1	+0.7
Dec	41.6	+1.2	46.9	+1.3	36.2	+1.0	0	0	8.3	-0.3

1991-2020 Normals for Precipitation (and change, Δ , as compared to 1981-2010 normals)

	Total (inches)	Δ P (inch)	Δ P (%)	Days P \geq 0.01	Δ D01	Days P \geq 0.10	Δ D10	Days P \geq 0.50	Δ D50	Days P \geq 1.00	Δ D1
Jan	5.03	+0.15	+3.1%	18.6	+0.6	12.3	+0.5	3.3	+0.3	0.5	0
Feb	3.68	+0.02	+0.5%	15.6	+0.7	9.3	+0.1	1.9	-0.1	0.5	+0.1
Mar	3.97	+0.29	+7.9%	17.8	+0.2	11.1	+0.4	2.1	+0.4	0.3	+0.1
Apr	2.89	+0.16	+5.9%	17.2	+0.8	9.0	+0.7	1.1	+0.1	0.1	0
May	2.51	+0.04	+1.6%	13.0	-0.6	7.3	+0.1	1.3	+0.1	0.2	+0.1
Jun	1.63	-0.07	-4.1%	9.1	-0.1	4.6	+0.1	0.7	0	0.1	-0.1
Jul	0.50	-0.15	-23.1%	3.6	-0.5	1.5	-0.4	0.2	-0.1	0	0
Aug	0.54	-0.13	-19.4%	3.6	-0.3	1.6	-0.2	0.2	-0.1	0	-0.1
Sep	1.52	+0.05	+3.4%	6.6	-0.1	3.5	+0.2	0.8	0	0.3	+0.1
Oct	3.42	+0.42	+14.0%	13.5	+1.0	7.9	+0.5	1.8	+0.1	0.5	+0.2
Nov	5.45	-0.18	-3.2%	18.3	-0.7	12.2	-0.4	3.2	-0.1	0.9	+0.1
Dec	5.77	+0.28	+5.1%	19.2	+0.6	13.0	+0.7	3.8	+0.4	0.9	0

For more information, visit the National Weather Service Portland at: weather.gov/portland
or NOAA's New 1991-2020 Climate Normals at: www.ncei.noaa.gov/products/climate-normals